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RAW SEQUENCE LISTING  
PATENT APPLICATION US/09/450,969

DATE: 12/13/1999  
TIME: 17:56:46

Input Set: I450969.RAW

This Raw Listing contains the General Information  
Section and up to first 5 pages.

ENTERED

1 <110> APPLICANT: Lynn Doucette-Stamm et al.  
2 <120> TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO STAPHYL  
3 EPIDERMIDIS FOR DIAGNOSTICS AND THERAPEUTICS  
4 <130> FILE REFERENCE: PATH99-09A  
5 <140> CURRENT APPLICATION NUMBER: US/09/450,969  
6 <141> CURRENT FILING DATE: 1999-11-29  
7 <160> NUMBER OF SEQ ID NOS: 7544  
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9 <211> LENGTH: 135  
10 <212> TYPE: DNA  
11 <213> ORGANISM: S.epidermidis  
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14 caatcacaag cttcacactc tatcggaata gcttctgttg ctaggagag gtttaaactg 120  
15 gccatttgat cataa 135  
16 <210> SEQ ID NO 2  
17 <211> LENGTH: 510  
18 <212> TYPE: DNA  
19 <213> ORGANISM: S.epidermidis  
20 <400> SEQUENCE: 2  
21 agtattatat ctaaactctga cataaatttc tattattgta ttaataaaaa aatttggaga 60  
22 agtgatatta tgaaaacttt taaggcagta agatttcaaa ttgtgaatga acatggtgca 120  
23 atatcagaat acgtcattga agatggtgtg attataaata aagaaggaag tggcactggg 180  
24 tggttactag aaatagtaat ttcaaatgaa cactatgaaa catttaagca atataaggat 240  
25 aacaaacaac ttttagatat tagagtagtc atcacaagac ctgctaacga tccagcggtta 300  
26 tttaatgcaa cagttaaaag cggttaaaaat tttaaatatt caatgtcagt cgtttttagaa 360  
27 tgtcacatct acactttgag acaagaatac gctgagagtt tattagaaga attagttgat 420  
28 gaaggactta caggtgaaaa gttgaaaaaa acatttaatc gtatgatgca atcaaaacct 480  
29 aagttgaaag atgagaaaaat cgaaagataa 510  
30 <210> SEQ ID NO 3  
31 <211> LENGTH: 135  
32 <212> TYPE: DNA  
33 <213> ORGANISM: S.epidermidis  
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36 actgctaata tgagagcgac aaatcttaat cccattttac tttcaagcat ttatgaattc 120  
37 acacctttct tttga 135  
38 <210> SEQ ID NO 4  
39 <211> LENGTH: 693  
40 <212> TYPE: DNA  
41 <213> ORGANISM: S.epidermidis  
42 <400> SEQUENCE: 4  
43 gaaaacaaat cacttttagg aggattttta ataataaaaa aaacattagt tgcattcatca 60  
44 tttagctatag gactaggcgt tgtagcaggt aacgcaggtc atgacgcaca tgcaagttag 120

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45      actacaaatg ttgataaagc agagttagct caaaaagcgt taactaatga tcaatcacta      180
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47      tatcattttg aatctgatgg ttctacttgg agttggagtt atgaatcaac aaacaatgct      300
48      acgcaacctg ttcaaccaag ccaatctcaa gtagctacac aacaacaacc tgtacaagta      360
49      tcagcaccac aaaatgagca aacagcacia ccacaaacaa aatcaacatc tacaagtcaa      420
50      acttcttcaa gtaaagcttc aagtggttca tcagtaaattg taaattcaca tttacaacaa      480
51      attgctcaac gtgaatcagg tggcgatatt catgcaataa acccatcttc aggtgcagca      540
52      ggtaaatatc aattcttaca atcaacttgg gattctgttg ctccaagtca atataaaggt      600
53      gtttcacctg caaaagctcc agaaagcgtg caagaccgag cagcagtaaa attatataat      660
54      actggtggcc caggtcattg ggtaactgca taa                                693
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56      <211> LENGTH: 153
57      <212> TYPE: DNA
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59      <400> SEQUENCE: 5
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61      ttaaaattaa aatgtaagtt attaaaaatt aatgacctaa ataagattgt aacatccaat      120
62      tatgcttatc aactgaagtt tgcattgccga taa                                153
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65      <212> TYPE: DNA
66      <213> ORGANISM: S.epidermidis
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69      tttattaatg ctcatgcata taattttaaatt aagcataatg aaccagttga taaatatata      120
70      atttaa                                126
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72      <211> LENGTH: 426
73      <212> TYPE: DNA
74      <213> ORGANISM: S.epidermidis
75      <400> SEQUENCE: 7
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78      cttaaaggat ttctactcc agatccatca ccattgacta agttaaacac acctttaggt      180
79      acgcctactt tatcaaaaat ttctgctaaa ataattgcag caaatgggtg ttcttcagat      240
80      ggttttaaaa caacagggct accagcagca aacgcagcag ctaattttaag tgaagtttgg      300
81      tttgtaggga aattccaagg tgtaacaagt ccagcaactc caattgcttc tttacaacc      360
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83      aaatga                                426
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85      <211> LENGTH: 300
86      <212> TYPE: DNA
87      <213> ORGANISM: S.epidermidis
88      <400> SEQUENCE: 8
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91      tccgtctgt cgcggttaac ctgcatcttc acaggtaacta tgatttcacc gagtctctcg      180
92      ttgagacagt gcccaaactg ttacgccttt cgtgcgggtc ggaacttacc cgacaaggaa      240
93      tttcgctacc ttaggaccgt tatagttacg gccgcggttt actgggggctt cgattcgtag      300
94      <210> SEQ ID NO 9

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100     cctattattg atgacattta caatgatggg tttattcaag atttactagc aggtaagtta      120
101     tctaatacaag ctgtaagaca atacttaaga gcagacgctt cttattttaa agagtttaca      180
102     aatattttatg caatgctcat acccaaaatg agttctatgg aagatgttaa atttctagta      240
103     gaacaaattg agtttatggt agaaggagaa gttgaagcgc atgaggttct agctgatttc      300
104     attaatgaac catatgaaga aatagtaaaa gaaaaagtat ggccaccaag tggatgatcat      360
105     tatattaaac atatgtactt caatgcattt gcacgtgaaa atgcagcctt cacgattgca      420
106     gcgatggcac cctgtccata cgtctacgct gtcattggta aacgtgcgat ggaagatccc      480
107     aaattaaata aagaatcagt gacttctaaa tggtttcaat tttatagtac tgaaatggac      540
108     gaacttggtg atgtgttcga tcaattgatg gaccgtttaa ctaaacattg tagtgagaca      600
109     gaaaaaaaaag agattaaaga aaatttcttg caaagtacta ttcatgagag acatttcttc      660
110     aatatggcat atattaatga aaaatgggaa tatgggggaa ataacaatga ataa          714
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113 <212> TYPE: DNA
114 <213> ORGANISM: S.epidermidis
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116     catgtgtcac ctccttctta tgttctaata ataactgagc ttagttcact ggtcaaaacc      60
117     acaattttat tgaaattggt agtaaataag gatgagattt tgatatattt aaagaaaata      120
118     ttgaagtatt atatctaa          138
119 <210> SEQ ID NO 11
120 <211> LENGTH: 1131
121 <212> TYPE: DNA
122 <213> ORGANISM: S.epidermidis
123 <400> SEQUENCE: 11
124     acaattacgt taaagaaaaa ggctaaaaaga actgtaattg taatggagga aaacgaaatg      60
125     acaaaagaaa atatttgtat cgttttttggg ggtaaaagtg cagaacacga tgtttcaatt      120
126     ttaactgcac aaaatgtttt aaacgcaatt gataaagaac gatatacaagt tgatatcatt      180
127     tatataacaa acgatgggtg atggaagaaa aaagataata ttacacaaga aataaaaaat      240
128     actgatgaac tcgtcattaa cgatgtagag actggagaaa tctcacagtt actcagtaaa      300
129     ggtagtttag gaaaatcata tgatgcagta ttcccgttat tgcatggtcc aaatggagaa      360
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131     ttagctgctt caagctcaat ggataaaactc gtgatgaaac aattattttga gcatagaggt      480
132     ttacctcaat taccttatat tagcttttta agaagtgagt atgaaaaata tgaaaaaat      540
133     atcattaagt tagttaatga taagttaaca tatcctgtat ttgtaaaacc tgctaatactc      600
134     ggttcaagtg ttggtataag taaatgtaac aatgaagaag aattaaaaatc tgggatagct      660
135     gaagcattcc aatttgatcg taaacttgctc attgaacaag ggattaatgc tagagagatc      720
136     gaagtagctg tcttaggtaa cgattatcct gaaacgacat ggccgtggtga ggttggttaag      780
137     gatgtagctt tttatgatta taaatcaaag tataaagacg gtaagattag attagatatt      840
138     ccagcagatt tagatcaaga tgttcaaagt acattaagaa acatggcatt agaggccttt      900
139     aaagctactg attgttcggg attagttcgt gcagatttct ttgttactga tgataatcaa      960
140     atttatatca atgaaacaaa tgccatgccg ggatttactg catatagtat gtatccaaac      1020
141     ttatggaaaa atatgggctt atcttaccct gatttaattg ctaaattgat tgatttggct      1080
142     aaagaacggt atgaagataa aaagaaaaat aaatataaaa ttgattatta g          1131
143 <210> SEQ ID NO 12
144 <211> LENGTH: 672

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145 <212> TYPE: DNA
146 <213> ORGANISM: S.epidermidis
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150      caagttaaag aattagaaaa taaagggatt aaagctacat taatagatgt agaaaaaaat      180
151      agtattaatg atttaaaaaa tatctttaca gattatgata aagttatctt ttcagttgga      240
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154      tctagacgtg aagcattcga tgcgagtggg gattttaaac cgtatacaat tgcaaagcat      420
155      tatgctgatg attacttaag aacatcagat ctttaattata caattgtaca tccagggttca      480
156      cttacagatg atgctggaac tggaaaaata gaagctgatt tatatttcga caaagcagga      540
157      tcaattccac gtgaagatgt tgctacagtt ttaaaagaag tagtaacttc tgatgggttt      600
158      aataatcaag aattccaaat tttaagtggc aatcatgggtg ttaaagatgc attgaaaaac      660
159      tatgaatctt aa      672
160 <210> SEQ ID NO 13
161 <211> LENGTH: 243
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163 <213> ORGANISM: S.epidermidis
164 <400> SEQUENCE: 13
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167      aggagtatgg accgtgtctc agttccagtg ggggcccagtc accctctcag gtcggctacg      180
168      catcgttgcc ttggtaagcc gttaccttac caactagcta atgcggcgcg gatccatcta      240
169      taa      243
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172 <212> TYPE: DNA
173 <213> ORGANISM: S.epidermidis
174 <400> SEQUENCE: 14
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176      atagaaaata ataaatatga ttatgtagaa ataagtcacg gtattcatga acgccctgaa      120
177      ttaggcaatg aagaaatttt tgcacgcaga acattaattg accaattaag agcaaatcga      180
178      ttcgaaatcg aaacggatat tgcaggacat gcaacaggat ttatagcaac gtatgattct      240
179      gatatgactg gaccgggttat aggatttcta gctgaatatg atgctttacc tgggtcttgg      300
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181      gaagtcgctg atgaaattgg tggtaaagta gtcgttttgg gatgtcctgc tgaagaaggt      420
182      ggggaaaatg gctccgcaaa agcttcttat gttaaagcag gtgtcattga tgaattgat      480
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185      gcattaaacg ctttagatgc aatgatttca tattttaatg gtatagcaca gtttaaggcaa      660
186      cacattaaaa aaggacaacg agttcacggg gttatttttag acggtggtaa agcggcta      720
187      attatacctg attttacaca tgcgagattt tatactcgag ctacttcacg gaaagaactt      780
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191      ggttatggat ctacagatac aggtaatgta agtcatgttg taccaactat acatccacat      1020
192      attaaaattg gttctcgaaa tcttgtagga catacccacc gctttagaga agcgggtgca      1080
193      agtttacaag gtgatcaggc actcattcga ggtgcaaaaa ttttagcatt aatgggacta      1140
194      gaattaatcg aaaataaacc gttgtagagc gaaataattg aagagcatac gcatataaag      1200

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**Please Note:**

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

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203      gaaggattta agcaaaagt accacatcta gaacaacttg gattaggaaa tattgcaccg      180
204      cttcctgttg tttcaaaagt tacacatcca ggtgcatttt ataccaaaact aagtgaagct      240
205      tcagtaggta aggatacaat gactggacat tgggaaatta tgggggttaa tataatgcaa      300
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228      ataataagag acaaaatggt agaatatgct aataagataa cattgaaggg agataatatc      180
229      atgaaatttg ctgttatcac tgatattcat ggaaactttg atgcgcttca aactgtttta      240
230      gatgatattg atagtagaga tgatatcgaa aaaatttata acctagggtga taacataggg      300
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233      gatttaaaag ggaaatttta tgagcatcat caatggatag aaggacattt agatgagtcc      480
234      tattacgatg aaattaatca attgcctaga tatattgaaa tgaccataaa agggaaaaag      540
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236      ccttttgcac ctattacaaa agatgacgaa caagctatct ctgaattatt taaagacaaa      660
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238      acagtatatt ttaatcctgg atcagtaggt ttgaacaatg gttcaaacac cgtatatggg      780
239      attattaccg ttaatgaaaa aggaatttca gtagagagag tgaaattagc gtacaataat      840
240      gaagaatttt tagcaggatt tgaagaaaag caagtaccag ctagagaatt tatatttaag      900
241      aatttcattt aa                                912
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243 <211> LENGTH: 162
244 <212> TYPE: DNA

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2004	W "N" or "Xaa" used: Feature required	tacttatgga taatcacgtt gattcaccac catcagct
2291	W "N" or "Xaa" used: Feature required	tctcanattt tcttacgccc aacaaacgga tag
3330	W "N" or "Xaa" used: Feature required	tgggcgctca attttacatc acagatgttg gggcgaac
3361	W "N" or "Xaa" used: Feature required	gctcaccgan tgggaccgca cacccaaccc ggggctat
10783	W "N" or "Xaa" used: Feature required	cgtattggtg tgttaactgt antggaaggt actactga
12020	W "N" or "Xaa" used: Feature required	aaagttcaaa aaggagtatg gncagggaca ccagttta
13566	W "N" or "Xaa" used: Feature required	ancaaatttt ga
20384	W "N" or "Xaa" used: Feature required	ccgttatgga gtcgtttatc aaaatttgnt attttccc
23401	W "N" or "Xaa" used: Feature required	gcgatttggt ggtatccnta tttagggtgca gctctagg
29518	W "N" or "Xaa" used: Feature required	aataatttga aagagagatt tattaagaaa antcatta
30534	W "N" or "Xaa" used: Feature required	ataatgantt ttcttaataa atctctcttt caaaatat
37626	W "N" or "Xaa" used: Feature required	aggtgcatga ttgccnaacc agcgaattga
39759	W "N" or "Xaa" used: Feature required	attatatcgt tttttctcag tgaggggtgaa atcatatt
45175	W "N" or "Xaa" used: Feature required	aatgatgatt catatcgnnn nnnnnnnnnn nnnnnnnn
47078	W "N" or "Xaa" used: Feature required	atcaaacgag atccaggcac gtcatacaca tttangat
52282	W "N" or "Xaa" used: Feature required	gggataaatn aagacnaaag agaactagga cttgtgct
52283	W "N" or "Xaa" used: Feature required	gtaccagctc aacgagctga aaattataaa aaaatcat
52321	W "N" or "Xaa" used: Feature required	atgggagggt taaagcacgg aactgttcca atatttga
52405	W "N" or "Xaa" used: Feature required	tctccttact ataataaan aaatgatgtt tgggctga
55943	W "N" or "Xaa" used: Feature required	aaaagaattc gtgcacttca acaggatatt aataacta
56894	W "N" or "Xaa" used: Feature required	tgcggtggtta tgcaatctcg ttactttgca agaataata
57586	W "N" or "Xaa" used: Feature required	ttcgtgcact tcaacaggat attaataact atntga
58199	W "N" or "Xaa" used: Feature required	gagtggtgata atcgagaggtt aatgataact tttacagt
64097	W "N" or "Xaa" used: Feature required	Leu Phe Val Thr Lys Asp Ser Ser Ser Xaa I
100675	W "N" or "Xaa" used: Feature required	Pro Leu Trp Ser Arg Leu Ser Lys Phe Xaa I
120710	W "N" or "Xaa" used: Feature required	Ile Met Xaa Phe Leu Asn Lys Ser Leu Phe G
149829	W "N" or "Xaa" used: Feature required	Asn Asp Asp Ser Tyr Arg Xaa Xaa Xaa Xaa X
153486	W "N" or "Xaa" used: Feature required	Ile Lys Arg Asp Pro Gly Thr Ser Tyr Thr P
163539	W "N" or "Xaa" used: Feature required	Lys Ser Val Arg Gly Ile Asn Xaa Asp Xaa A
163543	W "N" or "Xaa" used: Feature required	Tyr Lys Lys Ile Ile Lys Lys Lys Ile Xaa I
163760	W "N" or "Xaa" used: Feature required	Gln Cys Leu Ile Pro Gln Phe Val Ser Pro T